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10/763,929	01/23/2004	Vadakkedathu Thomas Rajan	YOR920030461US1 7862		
34663 MICHAEL L I	7590 06/10/2009 BUCHENHORNER	EXAMINER			
8540 S.W. 83	STREET		SWEARINGEN, JEFFREY R		
MIAMI, FL 33	143		ART UNIT	PAPER NUMBER	
			2445		
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# Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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#### Application No. Applicant(s) RAJAN ET AL. 10/763,929 Office Action Summary Examiner Art Unit Jeffrey R. Swearingen 2445 The MAII ING DATE of this communication

Period for R	Reply
WHICHE - Extension after SIX - If NO per - Failure to Any reply	TENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS,  SVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  so drime may be available under the provisions of 37 CFR 1.33(a), in no event, however, may a reply be timely filed  to the state of
Status	
2a) ☐ Th 3) ☐ Sir	esponsive to communication(s) filed on <u>18 March 2009.</u> ils action is <b>FINAL</b> .  2b)⊠ This action is non-final. nce this application is in condition for allowance except for formal matters, prosecution as to the merits is
clo	osed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.
Disposition	of Claims
4a) 5)□ Cla 6)⊠ Cla 7)□ Cla	aim(s) 1-17 is/are pending in the application.  Of the above claim(s) is/are withdrawn from consideration.  aim(s) is/are allowed.  aim(s) 15/are rejected.  aim(s) is/are objected to.  aim(s) are subject to restriction and/or election requirement.
Application	Papers
10) The Ap Re	e specification is objected to by the Examiner.  e drawing(s) filed on is/are: a)
Priority und	ler 35 U.S.C. § 119
a)□ / 1.[	knowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  All b)
3.[	Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
* See	the attached detailed Office action for a list of the certified copies not received.
Attachment(s)	
Auacinileiit(S)	

1)	X	Notice of	References	Cited (PT	O-892)			
			Draftsperso	on's Patent	Drawing	Review	(PTO-94	8

3) Information Disclosure Statement(s) (FTO/SE/CE) Paper No(s)/Mail Date \_\_\_

4) Interview Summary (PTO-413) Paper No(s)/Mail Date. 5) Notice of Informal Patent Application

6) Other: \_\_\_

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#### DETAILED ACTION

## Response to Arguments

 Applicant's arguments with respect to claims 1-17 have been considered but are moot in view of the new ground(s) of rejection.

## Claim Rejections - 35 USC § 103

- The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior at are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- Claims 1-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Horvitz et al. (US 6,161,130) in view of Loughmiller et al. (US 7,257,564).
- 4. In regard to claim 1, Horvitz disclosed a method of classifying electronic mail based upon likelihood of spam content of said electronic mail, the method comprising the steps of:

storing in a memory at least three electronic mail directories, each electronic mail directory being assigned a range of likelihood of spam content, said range being between no-likelihood-of-spam-content to very-high-likelihood-of-spam-content; Horvitz disclosed multiple classes of mail: spam (non-legitimate) or legitimate mail in column 4, lines 47-49. Horvitz allowed for subclassification of email based on its "spaminess" - spam containing information on commercial opportunities, spam containing pornographic material and other adult content, or legitimate e-mail. Horvitz, column 4, lines 50-53. See further

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Horvitz, column 8, lines 50-66, using assignment of "intermediate probabilities of spam" where spam is assigned to an intermediate folder or one of a number of such folders for review by a user.

using a processor for grading incoming electronic mail for likelihood of spam content, the grading based on user pre-defined criteria provided by a user; Horvitz used a mail classifier to classify the mail. Horvitz, column 8, lines 54-65.

storing in a memory each of the incoming electronic mail into one of the at least three electronic mail directories whose assigned ranges of likelihood of spam content encompass the likelihood of spam content grade of the incoming electronic mail; and Horvitz assigned the mail to intermediate folders for review by a user. Horvitz, column 8, lines 50-66.

receiving from the user at a user interface a command to adjust the level of likelihood of spam content that is required for placement of emails in the electronic mail directories. A user can review folders of intermediate spam content. Horvitz, column 8, lines 60-65. A user can issue commands to change the classification of a message. Horvitz, column 9, lines 9-17. User changes of the classification can update the filter. Horvitz, column 10, lines 27-38.

Horvitz disclosed two types of spam levels and a legitimate email level - three types of directories. Horvitz did not disclose a range of levels of spam that would be between "no-likelihood-of-spam-content to very-high-likelihood-of-spam-content".

Loughmiller did disclose a series of three classifications of messages.

Loughmiller, column 3, lines 55-67 disclosed "relatively important messages" which are

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not spam and not bulk messages, "bulk periodicals" (lines 48-54) which are messages that are clearly not directed to the individual recipient but the user might wish to review, and "unwanted email" or "spam" (lines 41-47).

It would have been obvious to one of ordinary skill in the art at the time of invention that because Horvitz supported multiple levels of intermediate spam content (commercial, pornographic, legitimate) and because Loughmiller disclosed a method of sorting messages to allow for overlap (bulk messages for review by the user) that Horvitz could be adapted to use the bulk messaging separation of Loughmiller with the intermediate spam folders (commercial, adult) of Horvitz to allow for sorting of bulk messages for further review as taught in Loughmiller into an intermediate spam folder of Horvitz. Therefore the user would have more control over reading bulk messages and deciding whether they should be considered legitimate without having to sort through an offensive amount of adult material.

5. In regard to claim 2, Loughmiller further disclosed the likelihood of spam content ranges assigned to at least two of the directories overlap such that an electronic mail whose grade is encompassed within the overlap is assigned to both of such directories. Loughmiller supported bulk messages, which could be further reviewed by a user. Loughmiller, column 3, lines 48-54. The messages in Loughmiller could be tagged and then forwarded to the user. Loughmiller, column 6, lines 31-47. Users could review false positives in column 7, lines 3-5 and 23-30. Horvitz further disclosed placing email in not only a spam directory but also an intermediate folder for review by the user. Horvitz, column 8, lines 50-65. This is essentially a "bulk periodicals" folder, where the

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computer treats it as spam but the user can review it and move it to a legitimate email folder or select it as spam to train the classifier in the future.

- 6. In regard to claim 3, Horvitz further disclosed presenting the user with an indication that the incoming electronic mail has been placed in more than one directory.
  Horvitz, column 8, lines 50-66; column 10, lines 27-38. Also, Loughmiller, column 7, lines 23-32.
- 7. In regard to claim 4, Horvitz further disclosed prompting the user to take an action on the incoming electronic mail that has been placed in more than one directory. Horvitz, column 8, lines 50-66; column 10, lines 27-38. Also, Loughmiller, column 7, lines 23-32.
- 8. In regard to claim 5, Horvitz further disclosed the action comprises voting on the likelihood of spam content of the incoming electronic mail. Horvitz, column 8, lines 50-66; column 10, lines 27-38. Also, Loughmiller, column 7, lines 23-32.
- In regard to claim 6, Horvitz further disclosed receiving new information on user behavior and re-grading the electronic mail based on the new information. Horvitz, column 10, lines 27-38. Also, Loughmiller, column 7, lines 23-32.
- In regard to claim 7, Horvitz further disclosed relocating electronic mail from one directory to another based on the re-grading. Horvitz, column 10, lines 27-38.
- Claim 8 is substantially the same as claim 1.
- 12. Claim 9 is substantially the same as claim 2.
- Claim 10 is substantially the same as claim 1.
- Claim 11 is substantially the same as claims 1 and 2.

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 In regard to claim 12, Horvitz further disclosed retrieving stored electronic mail messages; Horvitz, column 10, lines 27-38 Also, Loughmiller, column 7, lines 23-32.

reclassifying the stored electronic mail messages according to the grading of the incoming electronic mail messages, wherein said stored electronic mail messages and the incoming electronic mail messages contain a common criterion used in the grading; and Horvitz, column 10, lines 27-38. Also, Loughmiller, column 7, lines 23-32.

reassigning the stored electronic mail messages to another electronic mail directory based upon the reclassification. Horvitz, column 10, lines 27-38 Also, Loughmiller, column 7, lines 23-32.

- In regard to claim 13, Horvitz further disclosed prompting the user before the stored electronic mail messages are reassigned. Horvitz, column 10, lines 27-38
- In regard to claim 14, Horvitz further disclosed the number of directories is specified by the user. A number of folders are used for intermediate probabilities of spam. Horvitz, column 8, lines 60-65.
- In regard to claim 15, Horvitz further disclosed assigning a label to each directory, said label comprising a user-friendly identifier. Horvitz, column 8, lines 60-65
- In regard to claim 16, Horvitz further disclosed the user-friendly identifier is selected from a group consisting of: colors, names, tasks, content, and spam levels.
   Horvitz, column 8, lines 60-65
- In regard to claim 17, Horvitz further disclosed the ranges are assigned by the user. Horvitz, column 8, lines 60-65

### Conclusion

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jeffrey R. Swearingen whose telephone number is (571)272-3921. The examiner can normally be reached on M-F 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vivek Srivastava can be reached on 571-272-7304. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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